



## Seikyou

by Arya Akhavan (August 2012)

Angles for R.I. = 1.610

85 + 4 girdles = 89 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.395$   $T/W = 0.553$   $U/W = 0.318$

$P/W = 0.885$   $C/W = 0.213$

$Vol./W^3 = 0.724$

### PAVILION

P1	46.58°	96-04-08-12-17-18-23-25-30-31-36-40-44-48-52-56-60-65-66-71-73-78-79-84-88-92	Cut to centrepoint.
G1	90.00°	96-48	Set stone width.
G2	90.00°	24-72	Meet P1, G1
P2	75.53°	96-48	Level girdle.
P3	61.83°	24-72	Level girdle.
P4	45.56°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Meet P1, P2 (only four facets meet)

### CROWN

C1	71.86°	96-48	Set girdle width.
C2	47.25°	24-72	Meet G1, G2, C1 (level girdle)
C3	26.97°	03-45-51-93	Meet G1, G2, C1, C2 ("cluster")
C4	21.64°	17-31-65-79	Meet at cluster.
C5	21.35°	06-42-54-90	Meet at cluster.
C6	20.65°	07-41-55-89	Meet at cluster.
C7	15.66°	21-27-69-75	Meet C2, C4
C8	25.49°	01-47-49-95	Meet C1, C3
C9	12.52°	14-34-62-82	Meet C4, C6, C7
C10	16.54°	03-45-51-93	Meet C3, C5, C8
C11	18.13°	96-48	Meet C3, C5, C8, C10
T	0.00°	Table	Meet C10, C11; C7, C9

Apparently, I'm awful at designing crowns, but somehow this turned out to be a success. It's got some amazing light return and very little tilt windowing, even though the pavilion is five times deeper than the crown. Be careful with the smaller crown facets (they go quickly) and the corners (8 facet meetpoint).

Suggested size = 15-25 mm.

C:\Program Files (x86)\GemCAD\Designs (Mine)\Seikyou (deep version).gem